Contact SAMSUNG WORLDWIDE
If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
AUSTRALIA	1300 362 603	www.samsung.com/au
CHINA	800-810-5858 400-810-5858 010-6475 1880	www.samsung.com/cn
	HONG KONG:3698 - 4698	www.samsung.com/hk
INDIA	3030 8282 1-800-3000-8282 1800 110011	www.samsung.com/in
INDONESIA	0800-112-8888	www.samsung.com/id
JAPAN	0120-327-527	www.samsung.com/jp
MALAYSIA	1800-88-9999	www.samsung.com/my
NEW ZEALAND	0800 SAMSUNG (0800 726 786)	www.samsung.com/nz
PHILIPPINES	1-800-10-SAMSUNG(726-7864) 1-800-3-SAMSUNG(726-7864) 02-5805777	www.samsung.com/ph
SINGAPORE	1800-SAMSUNG(726-7864)	www.samsung.com/sg
THAILAND	1800-29-3232 02-689-3232	www.samsung.com/th
TAIWAN	0800-329-999	www.samsung.com/tw
VIETNAM	1 800 588 889	www.samsung.com/vn
SOUTH AFRICA	0860-SAMSUNG(726-7864)	www.samsung.com/za
U.A.E	800-SAMSUNG (726-7864) 8000-4726	www.samsung.com/ae

BN68-02041A-01

SERIES 4

LCD TV
user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service, please register your product at

www.samsung.com/register

Model _____ Serial No. _____

❑ License

TruSurround HD, SRS and (●) symbol are trademarks of SRS Labs, Inc. **TruSurround HD** technology is incorporated under license from SRS Labs, Inc.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

❑ Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen

- Do not display still image and partially still on the LCD panel for more than 2 hours as it can cause screen image retention. This image retention is also known as “screen burn”. To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.
- Watching the LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause a similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.
- Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images. To prevent this effect, reduce the ‘brightness’ and ‘contrast’ when displaying still images.

© 2009 Samsung Electronics Co., Ltd. All rights reserved.

CONTENTS

CONNECTING AND PREPARING YOUR TV

- Viewing the Control Panel 2
- Accessories 3
- Viewing the Connection Panel 3
- Viewing the Remote Control 5
- Installing Batteries in the Remote Control 5

OPERATION

- Viewing the menus 6
- Plug & Play Feature 7

CHANNEL CONTROL

- Configuring the Channel Menu 8
- Managing Channels 10

PICTURE CONTROL

- Configuring the Picture Menu 12
- Using Your TV as a Computer (PC) Display 15
- Setting up the TV with your PC 16

SOUND CONTROL

- Configuring the Sound Menu 16
- Selecting the Sound Mode 17

SETUP

- Configuring the Setup Menu 18

INPUT / SUPPORT

- Configuring the Input Menu 21
- Configuring the Support Menu 21

RECOMMENDATIONS

- Teletext Feature 23
- Installing the Stand 24
- Disconnecting the Stand 24
- Installing the Wall Mount Kit 24
- Anti-Theft Kensington Lock 25
- Securing the Installation Space 25
- Securing the TV to the Wall 26
- Troubleshooting: Before Contacting Service Personnel 27
- Specifications 28

❑ **Symbol**

Note	One-Touch Button	TOOL Button	Press

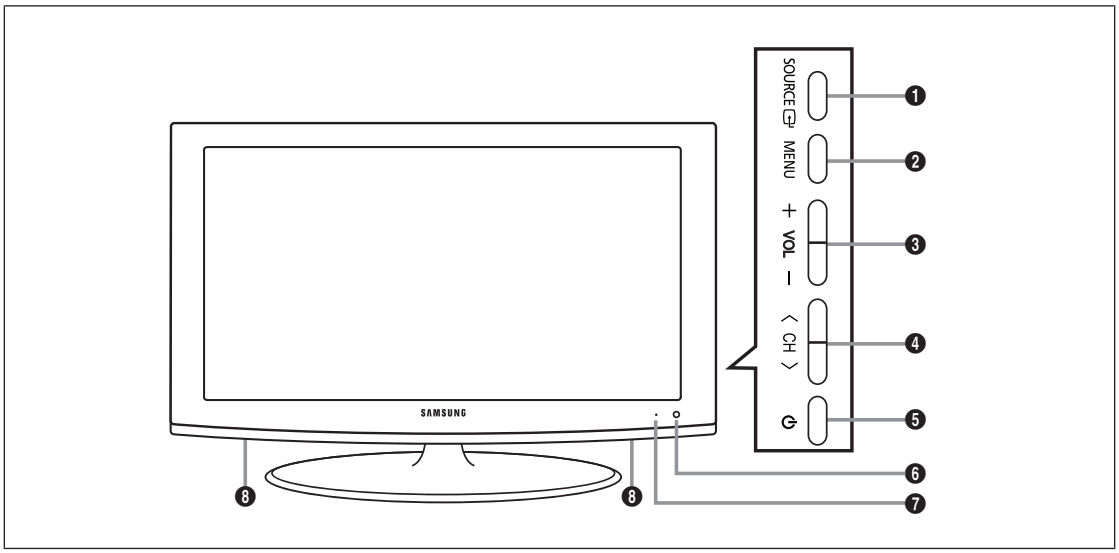
CONNECTING AND PREPARING YOUR TV

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice in order to enhance product performance.

Viewing the Control Panel

The product colour and shape may vary depending on the model.

You can use a button by pressing the side panel buttons.



1 SOURCE

Toggles between all the available input sources. In the on-screen menu, use this button as you would use the **ENTER** button on the remote control.

2 MENU

Press to see an on-screen menu of your TV's features.

3 – VOL +

Press to increase or decrease the volume.

In the on-screen menu, use the **– VOL +** buttons as you would use the ◄ and ► buttons on the remote control.

4 ∨ CH ∧

Press to change channels. In the on-screen menu, use the **∨ CH ∧** buttons as you would use the ▼ and ▲ buttons on the remote control.

5 (POWER)

Press to turn the TV on and off.

6 REMOTE CONTROL SENSOR

Aim the remote control towards this spot on the TV.

7 POWER INDICATOR

Blinks and turns off when the power is on and lights up in stand-by mode.

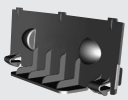
8 SPEAKERS

Accessories

Remote Control & Batteries (AAA x 2)

Power Cord

Cleaning Cloth



Cover-Bottom

(M4 X L16)

Stand Screw

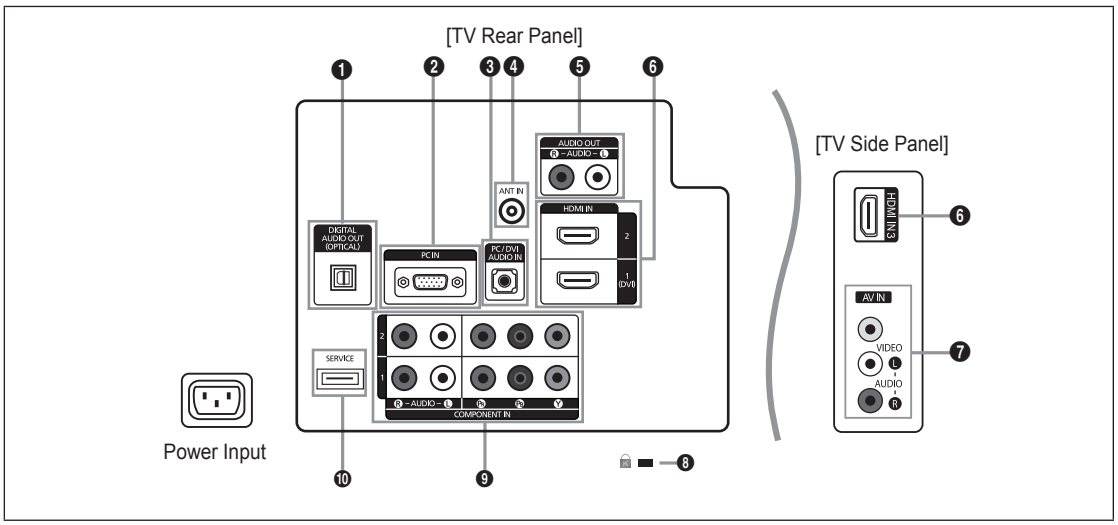
(M4 X L18)

Stand Screw X 3
(32inch model only)

- Owner's Instructions
- Warranty card
- Safety Guide
- Registration Cards

Please make sure the following items are included with your LCD TV. If any items are missing, contact your dealer.
Warranty card / Safety Guide / Registration Cards (Not available in all locations)
The items colour and shape may vary depending on the model.

Viewing the Connection Panel



The product colour and shape may vary depending on the model.
Whenever you connect an external device to your TV, make sure that power on the unit is turned off.
When connecting an external device, match the colour of the connection terminal to the cable.

❶ DIGITAL AUDIO OUT (OPTICAL)

– Connects to a Digital Audio component.

When a Digital Audio System is connected to the **DIGITAL AUDIO OUT (OPTICAL)** jack: Decrease the volume of the TV and adjust the volume level with the system's volume control.

5.1CH audio is possible when the TV is connected to an external device supporting 5.1CH.

❷ PC IN

– Connect to the video output jack on your PC.

❸ **PC / DVI AUDIO IN**

– Connect to the audio output jack on your PC.
– DVI audio outputs for external devices.

❹ **ANT IN**

– To view television channels correctly, a signal must be received by the set from one of the following sources: An outdoor aerial / A cable television network

❺ **AUDIO OUT [R-AUDIO-L]**

– Connect RCA audio cables to **AUDIO OUT [R-AUDIO-L]** on the rear of your set and the other ends to corresponding audio in connectors on the Amplifier or DVD Home Theatre.

❻ **HDMI IN 1(DVI), 2, 3**

– Supports connections between HDMI-connection-enabled AV devices (Set-Top Boxes, DVD / Blu-ray player)
– No additional Audio connection is needed for an HDMI to HDMI connection.
– The **HDMI IN 1(DVI)** jack can be used to connect a PC.

What is HDMI?

''High Definition Multimedia interface' allows the transmission of high definition digital video data and multiple channels of digital audio.

The HDMI / DVI terminal supports DVI connection to an extended device with the appropriate cable (not supplied).

The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.

❼ **AV IN [VIDEO] / [R-AUDIO-L]**

– Connect RCA cable to an appropriate external A/V device such as VCR, DVD or Camcorder.
– Connect RCA audio cables to **[R-AUDIO-L]** on your set and the other ends to corresponding audio out connectors on the A/V device.

❽ **KENSINGTON LOCK** (depending on the model)

– The Kensington Lock (optional) is a device used to physically fix the system when used in a public place.
– If you want to use a locking device, contact the dealer where you purchased the TV.
– The location of the Kensington Lock may be different depending on its model.

❾ **COMPONENT IN 1, 2**

– Connect component video cables (optional) to component connector (P_R, P_B, Y) on the rear of your set and the other ends to corresponding component video out connectors on the DVD.
– If you wish to connect both the Set-Top Box and DVD, you should connect the Set-Top Box to the DVD and connect the DVD to component connector (P_R, P_B, Y) on your set.
– The P_R, P_B and Y connectors on your component devices DVD are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.
– Connect RCA audio cables (optional) to **[R-AUDIO-L]** on the rear of your set and the other ends to corresponding audio out connectors on the DVD.

❿ **SERVICE**

– Connector for service only.

Viewing the Remote Control

- You can use the remote control up to a distance of about 23 feet from the TV.
- The performance of the remote control may be affected by bright light.
- The product colour and shape may vary depending on the model.

❶ **POWER** : Television Standby button.

❷ **NUMERIC BUTTONS** : Press to change the channel.

❸ **:** Performs the same function as the **ENTER** key of the directional keys. When switching channels with the numeric buttons, and you press the channel number and then the **ENTER** key, the channel is immediately switched.

❹ **– +** : Press to increase or decrease the volume.

❺ **SOURCE**: Press to display and select the available video sources.

❻ **CH LIST**: Displays the Channel List on screen

❼ **TOOLS**: Use to quickly select frequently used functions.

❽ **INFO**: Press to display information on the TV screen.

❾ **COLOUR BUTTONS**: Use these buttons in the Channel list menus etc.

❿ **TV**: Selects the TV mode directly.

⓬ **PRE-CH:** Enables you to return to the previous channel you were watching.

⓭ **MUTE :** Press to temporarily cut off the sound.

⓮ **P ∧/P ∨**: Press to change channels.

⓯ **MENU**: Displays the main on-screen menu

⓰ **FAV.CH**: Press to switch to your favourites channels.

⓱ **RETURN**: Returns to the previous menu

⓲ **UP▲ / DOWN▼ / LEFT◄ / RIGHT► / ENTER**: Use to select on-screen menu items and change menu values.

⓳ **EXIT**: Press to exit the menu.

⓴ **SUBT.**: Digital subtitle display

㉑ **GUIDE**: Electronic Programme Guide (EPG) display.

Teletext Functions

❺ : Teletext mode selection (LIST / FLOF)

❻ : Teletext store

❼ : Teletext size selection

❽ : Teletext reveal

❾ Fastest topic selection

❿ : Alternately select Teletext, Double, or Mix.

⓫ : Exit from the teletext display

⓬ : Teletext sub page

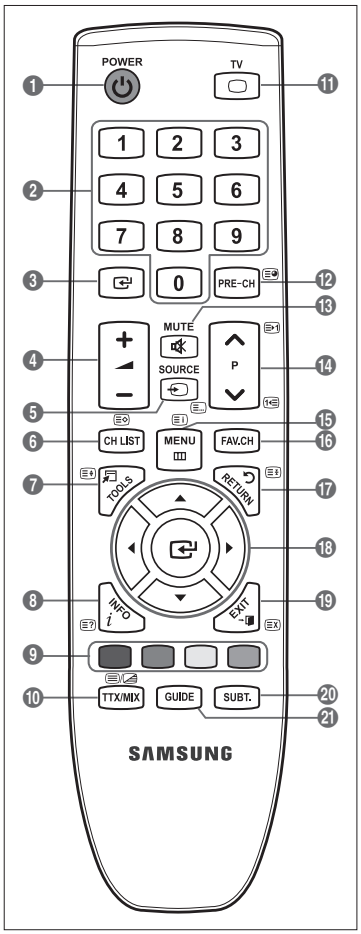
⓮ : Teletext next page

: Teletext previous page

⓯ : Teletext index

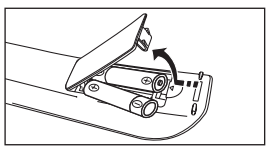
⓱ : Teletext hold

⓳ : Teletext cancel



Installing Batteries in the Remote Control

1. Lift the cover at the back of the remote control upward as shown in the figure.
2. Install two AAA size batteries.
   - Make sure to match the '+' and '–' ends of the batteries with the diagram inside the compartment.
3. Replace the cover.
   - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

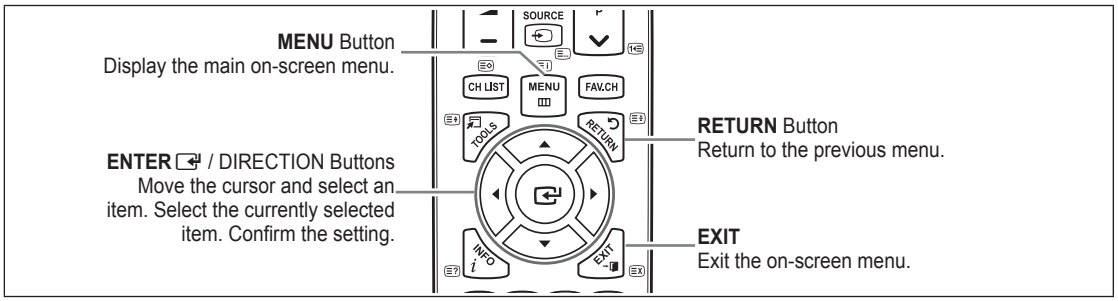


- If the remote control doesn't work, check the following:
  - Is the TV power on?
  - Are the plus and minus ends of the batteries reversed?
  - Are the batteries drained?
  - Is there a power outage or is the power cord unplugged?
  - Is there a special fluorescent light or neon sign nearby?

OPERATION

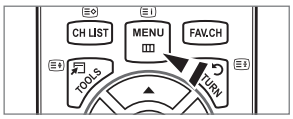
Viewing the menus

Before using the TV, follow the steps below to learn how to navigate the menu in order to select and adjust different functions.

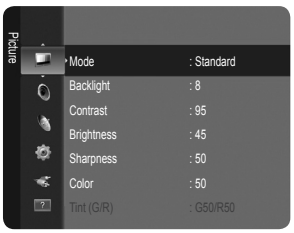


❑ Operation the OSD (On Screen Display)

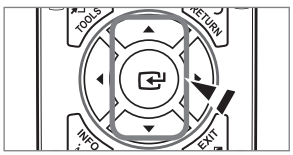
The access step may differ depending on the selected menu.



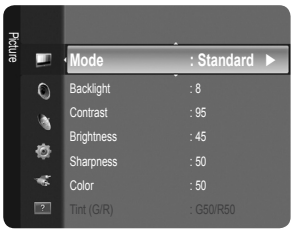
1. Press the **MENU** button.



2. The main menu appears on the screen. The menu's left side has icons : **Picture, Sound, Channel, Setup, Input, Support.**



3. Press the ▲ or ▼ button to select one of the icons.

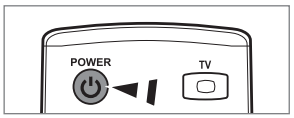


4. Then press the **ENTER** button to access the icon's sub-menu.
5. Press the ▲ or ▼ button to select the icon's submenu.

6. Press the ◄ or ► button to decrease or increase the value of a particular item. The adjustment OSD may differ depending on the selected menu.
7. Press the **ENTER** button to complete the configuration. Press the **EXIT** button to exit.

Plug & Play Feature

When the TV is initially powered on, basic settings proceed automatically and subsequently.



1. Press the **POWER** button on the remote control.
   - The message **Select 'Home Use' when installing this TV in your home.** is displayed.
   - You can also use the **POWER** button on the TV.
2. Press the ◄ or ► button to select **Store Demo** or **Home Use**, then the **ENTER** button.
   - We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
   - **Store Demo** mode is only intended for use in retail environments.
   - If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use** (**Standard**): Press the Volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.
3. Press the **ENTER** button. Select the appropriate country by pressing the ▲ or ▼ button. Press the **ENTER** button to confirm your choice.
4. Press the ▲ or ▼ button to select the channel source to memorize. Press the **ENTER** button to select **Start**.
   - **Digital & Analogue**: Digital and Analogue channels.
   - **Digital**: Digital channels.
   - **Analogue**: Analogue channels.
   - The channel search will start and end automatically.
   - Press the **ENTER** button at any time to interrupt the memorization process.
   - After all the available channels are stored, the message **Set the Clock Mode.** is displayed.
5. Press the **ENTER** button. Press the ▲ or ▼ button to select **Auto**, then Press the **ENTER** button.
   - If you select **Manual**, Set current date and time is displayed.
   - If you have received a digital signal, the time will be set automatically. If not, select Manual to set the clock.
6. Press the ▲ or ▼ button to highlight the time zone for your local area. Press the **ENTER** button. (Australia only)
7. The description for the connection method providing the best HD screen quality is displayed. Check the description and press the **ENTER** button.
8. Press the **ENTER** button to confirm your setting. The message **Enjoy your TV.** is displayed. When you have finished, press the **ENTER** button.
   - Even if the **ENTER** button is not pressed, the message will automatically disappear after several seconds.

If you want to reset this feature...

1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER** button.
2. Press the **ENTER** button again to select **Plug & Play**.
3. Enter your 4 digit PIN number. The default PIN number of a new TV set is '0-0-0-0'.
   - If you want to change PIN number, use the **Change PIN** function. (refer to page 19)
   - The **Plug & Play** feature is only available in the TV mode.

CHANNEL CONTROL

Configuring the Channel Menu

❑ Country

You can change the country.

- The PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN by selecting **Change PIN** from the menu.
- Some functions may not be supported depending on the selected country.

❑ Auto Store

You can scan for the frequency ranges available to you (and availability depends on your country).

Automatically allocated programme numbers may not correspond to actual or desired programme numbers.

- If a channel is locked using the **Child Lock** function, the PIN input window appears.

Air / Cable

Antenna source to memorize

- **Digital & Analogue**: Digital and Analogue channels.
- **Digital**: Digital channels.
- **Analogue**: Analogue channels.

- Scans for all channels with active broadcast stations and stores them in the TV's memory.
- If you want to stop Auto Store, press the **ENTER** ↵ button.
  The **Stop Auto Store?** message will be displayed.
  Select **Yes** by pressing the ◄ or ► button, then press the **ENTER** ↵ button.

❑ Manual Store

- Scans for a channel manually and stores it in the TV's memory.
- If a channel is locked using the **Child Lock** function, the PIN input window appears.

Digital Channel

Manual store for digital channels.

- **Digital Channel** is only available in digital TV mode.

- **Channel**: Set the Channel number using the ▲, ▼ or number (0~9) buttons.
- **Frequency**: Set the frequency using the number buttons.
- **Bandwidth**: Set the bandwidth using the ▲, ▼ or number (0~9) buttons.

- When it has finished, channels are updated in the channel list.

Analogue Channel

Manual store for analogue channel.

- **Analogue Channel** is only available in analogue TV mode.

- **Programme** (Programme number to be assigned to a channel): Sets the programme number using the ▲, ▼ or number (0~9) buttons.
- **Colour System** → **Auto / PAL / SECAM / NTSC4.43**: Sets the colour system value using the ▲ or ▼ button.
- **Sound System** → **BG / DK / I / L**: Sets the sound system value using the ▲ or ▼ button.
- **Channel** (When you know the number of the channel to be stored): Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel). Press the ► button, then press the ▲, ▼ or number (0~9) buttons to select the required number.
  - You can also select the channel number directly by pressing the number (0~9) buttons.
  - If there is abnormal sound or no sound, reselect the sound standard required.
- **Search** (When you do not know the channel numbers): Press the ▲ or ▼ button to start the search. The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- **Store** (When you store the channel and associated programme number): Set to **OK** by pressing the **ENTER** ↵ button.

- **Channel mode**
  - P (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
  - C (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
  - S (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

❑ Full Guide / Mini Guide

The EPG (Electronic Programme Guide) information is provided by the broadcasters. Programme entries may appear blank or out of date as a result of the information broadcast on a given channel. The display will dynamically update as soon as new information becomes available.

- You can also display the guide menu simply by pressing the **GUIDE** button. (To configure the **Default Guide**, refer to the descriptions.)
- In New Zealand, If **Digital Text** is set to **Enable**, the EPG (Electronic Program Guide) will work. (refer to page 20)

■ **Full Guide**

Displays the programme information as time ordered One hour segments. Two hours of programme information is displayed which may be scrolled forwards or backwards in time.

■ **Mini Guide**

The information of each programme is displayed by each line on the current channel Mini Guide screen from the current programme onwards according to the programme starting time order.

❑ Default Guide → Mini Guide / Full Guide

You can decide whether to display either the **Mini Guide** or the **Full Guide** when the **GUIDE** button on the remote control is pressed.

❑ Channel List

For the detailed procedures on using the **Channel List**, refer to page 10.

- You can select these options by simply pressing the **CH LIST** button on the remote control.

❑ Channel Mode

When press the **P** ∨/∧ button, Channels will be switched within the selected channel list.

■ **Added Ch.**

Channels will be switched within the memorized channel list.

■ **Favourite Ch.**

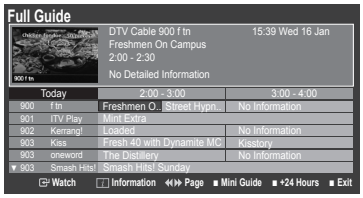
Channels will be switched within the favourite channel list.

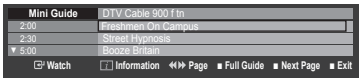
❑ Fine Tune

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

- Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner.
- To reset the fine-tuning, select **Reset** by pressing the ▲ or ▼ button and then press the **ENTER** ↵ button.
- Only Analogue TV channels can be fine tuned.

Using the Full / Mini Guide





To...	Then...
Watch a programme in the EPG list	Select a programme by pressing the ▲, ▼, ◄, ► button.
Exit the guide	Press the blue button
If the next programme is selected, it is scheduled with the clock icon displayed. If the **ENTER** button is pressed again, press the ◄, ► button to select Cancel Schedules, the scheduling is canceled with the clock icon gone.	
View programme information	Select a programme of your choice by pressing the ▲, ▼, ◄, ► button. Then press the **INFO** button when the programme of your choice is highlighted. The programme title is on the upper part of the screen center.
Please click on **INFO** button for the detailed information. Channel Number, Running Time, Status Bar, Parental Level, Video Quality Information (HD / SD), Sound Modes, Subtitle or Teletext, Languages of Subtitle or Teletext and brief summary of the highlighted programme are included on the detailed information. "..." will be appeared if the summary is long.	
Toggle between the **Mini Guide** or **Full Guide**	Press the red button repeatedly.
In Full Guide	
Scrolls backwards quickly (24 hours).	Press the green button repeatedly.
Scrolls forwards quickly (24 hours).	Press the yellow button repeatedly.
In Mini Guide	
Display previous page quickly.	Press the green button.
Display next page quickly.	Press the yellow button.

Managing Channels

Using this menu, you can add / delete or set favourite channels and use the programme guide for digital broadcasts.

- **All Channels**

  Shows all currently available channels.

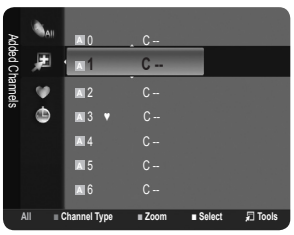
- **Added Channels**

  Shows all added channels.

- **Favourites**

  Shows all favourite channels.

  To select the favourites channels you have set up, press the **FAV.CH** button on the remote control.



- **Programmed**

  Shows all current reserved programmes.

  Select a channel in the **All Channels, Added Channels** or **Favourites** screen by pressing the ▲ / ▼ buttons, and pressing the **ENTER** button. Then you can watch the selected channel.

  Using the Colour buttons with the Channel List

  – **Red** (**Channel Type**): Toggle between your TV, Radio, Data / Other and All.
  – **Green** (**Zoom**): Enlarges or shrinks a channel number.
  – **Yellow** (**Select**): Selects multiple channel lists. You can perform the **Add** / **Delete**, **Add to Favourite** / **Delete from Favourite** or **Lock** / **Unlock** function for multiple channels at the same time. Select the required channels and press the yellow button to set all the selected channels at the same time.
  – **TOOLS** (**Tools**): Displays the **Delete** (or **Add**), **Add to Favourite** (or **Delete from Favourite**), **Lock** (or **Unlock**), **Timer Viewing, Edit Channel Name, Edit Channel Number, Sort, Select All, Deselect All** or **Auto Store** menu. (The Option menus may differ depending on the situation.)

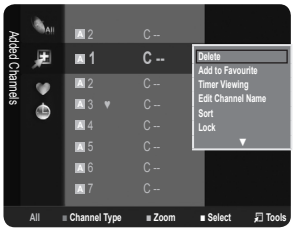
  Channel Status Display Icons

  - A : An Analogue channel.
  - ✓ : A channel selected by pressing the yellow button.
  - ♥ : A channel set as a Favourite.
  - : A programme currently being broadcast.
  - : A locked channel.
  - : A reserved programme

Channel List Option Menu (in All Channels / Added Channels / Favourites)

- Press the **TOOLS** button to use the option menu.
- Option menu items may differ depending on the channel status.

Add / Delete



You can delete or add a channel to display the channels you want.

- All deleted channels will be shown on **All Channels** menu.
- A gray-coloured channel indicates the channel has been deleted.
- The **Add** menu only appears for deleted channels.
- You can also delete a channel to the **Added Channels** or **Favourites** menu in the same manner.

Add to Favourite / Delete from Favourite

You can set channels you watch frequently as favourites.

- The ♥ symbol will be displayed and the channel will be set as a favourite.
- All favourite channels will be shown on **Favourite** menu.
- Press the **TOOLS** button to display the **Tools** menu. You can also set the Add to Favourite by selecting **Tools** → **Add to Favourite**.

Lock / Unlock

You can lock a channel so that the channel cannot be selected and viewed. This function is available only when the **Child Lock** is set to **On**. (see page 19)

- The PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN, by selecting **Change PIN** from the menu.
- The 🔒 symbol will be displayed and the channel will be locked.

Timer Viewing

If you reserve a programme you want to watch, the channel is automatically switched to the reserved channel in the Channel List; even when you are watching another channel. To reserve a programme, set the current time first. (See page 18)

- Only memorized channels can be reserved.
- You can set the channel, day, month, year, hour and minute directly by pressing the number buttons on the remote control.
- Reserving a programme will be shown on **Programmed** menu.
- **Digital Programme Guide and Viewing Reservation**
  When a digital channel is selected, and you press the ► button, the Programme Guide for the channel appears. You can reserve a programme according to the procedures described above.

Edit Channel Name (analogue channels only)

Channels can be labeled so that their call letters appear whenever the channel is selected.

- The names of digital broadcasting channels are automatically assigned and cannot be labeled.

Edit Channel Number (digital channels only) (Australia, Singapore only)

- You can also edit the channel number by pressing the number buttons on the remote control.

Sort (analogue channels only)

This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.

Select All / Deselect All

- **Select All**: You can select all the channels in the channel list.
- **Deselect All**: You can deselect all the selected channels by pressing the yellow button.

- You can perform the Add / Delete, Add to Favourites / Delete from Favourites, or Lock / Unlock function for multiple channels at the same time. Select the required channels and press the yellow button to set all the selected channels at the same time.
- The ✓ mark appears to the left of the selected channels.
- You can only select **Deselect All** when there is a selected channel.

Auto Store

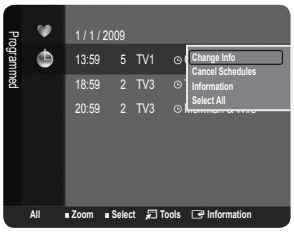
- For further details on setting up options, refer to page 8.
- If a channel is locked using the **Child Lock** function, the PIN input window appears.

Channel List Option Menu (in Programmed)

You can view, modify or delete a reservation.

Press the **TOOLS** button to use the option menu.

- **Change Info**
  Select to change a viewing reservation.
- **Cancel Schedules**
  Select to cancel a viewing reservation.
- **Information**
  Select to view a viewing reservation. (You can also change the reservation information.)
- **Select All**
  Select all reserved programmes.



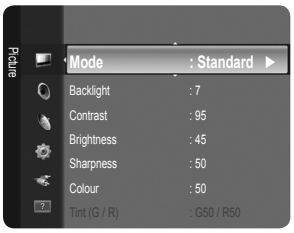
PICTURE CONTROL

Configuring the Picture Menu

❑ Mode

You can select the type of picture which best corresponds to your viewing requirements.

Press the **TOOLS** button to display the **Tools** menu. You can also set the picture mode by selecting **Tools** → **Picture Mode**.



- **Dynamic**
  Selects the picture for increased definition in a bright room.
- **Standard**
  Selects the picture for the optimum display in a normal environment.
- **Movie**
  Selects the picture for viewing movies in a dark room.

❑ Backlight / Contrast / Brightness / Sharpness / Colour / Tint(G/R)

Your television has several setting options that allow you to control the picture quality.

- **Backlight**
  Adjusts the brightness of LCD back light.
- **Contrast**
  Adjusts the contrast level of the picture.
- **Brightness**
  Adjusts the brightness level of the picture
- **Sharpness**
  Adjusts the edge definition of the picture.
- **Colour**
  Adjusts colour saturation of the picture.
- **Tint(G/R)**
  Adjusts the colour tint of the picture.

Select a picture mode to be adjusted first. The adjusted values are saved for each picture mode.

When you make changes to **Backlight, Contrast, Brightness, Sharpness, Colour** or **Tint(G/R)**, the OSD will be adjusted accordingly.

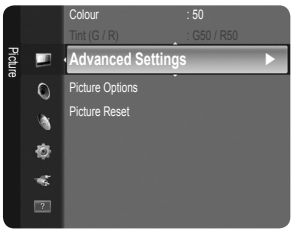
In analogue TV, AV modes of the PAL system, you cannot use the **Tint(G/R)** Function.

In PC mode, you can only make changes to **Backlight, Contrast** and **Brightness**.

Settings can be adjusted and stored for each external device you have connected to an input of the TV.

The energy consumed during use can be significantly reduced if the brightness level of the picture is lowered, which will reduce the overall running cost.

❑ Advanced Settings



Samsung's new TVs allow you to make even more precise picture settings than previous models.

- **Advanced Settings** is available in **Standard** or **Movie** mode.
- In PC mode, you can only make changes to **Gamma** and **White Balance** from among the **Advanced Settings** items.

■ **Black Tone → Off / Dark / Darker / Darkest**

You can select the black level on the screen to adjust the screen depth.

■ **Dynamic Contrast → Off / Low / Medium / High**

You can adjust the screen contrast so that the optimal contrast is provided.

■ **Gamma**

You can adjust the Primary Colour (Red, Green, Blue) Intensity.

■ **Colour Space**

Colour Space is a colour matrix composed of red, green and blue colours. Select your favourite Colour Space to experience the most natural colour.

- **Auto**: Auto Colour Space automatically adjusts to the most natural colour tone based on programme sources.
- **Native**: Native Colour Space offers deep and rich colour tone.

■ **White Balance**

You can adjust the colour temperature for more natural picture colours.

- **R-Offset / G-Offset / B-Offset / R-Gain / G-Gain / B-Gain**: You can adjust the Colour 'temperature' in the light areas by changing the values of R, G, B, Recommended for advanced users only.
- **Reset**: The previously adjusted white balance will be reset to the factory defaults.

■ **Flesh Tone**

You can emphasize the pink 'flesh tone' in the picture.

- Changing the adjustment value will refresh the adjusted screen.

■ **Edge Enhancement → Off / On**

You can emphasize object boundaries in the picture.

❑ Picture Options

- In PC mode, you can only make changes to the **Colour Tone** and **Size** from among the items in **Picture Options**.

■ **Colour Tone → Cool / Normal / Warm1 / Warm2**

You can select the most comfortable colour tone to your eyes.

- Settings can be adjusted and stored for each external device you have connected to an input of the TV.
- **Warm1** or **Warm2** is only activated when the picture mode is **Movie**.

■ **Size**

You can select the picture size which best corresponds to your viewing requirements.

Press the **TOOLS** button to display the **Tools** menu. You can also set the size by selecting **Tools** → **Picture Size**.

You can select these options by simply pressing the **P.SIZE** button on the remote control.

- **Auto Wide**: Automatically adjusts the picture size to the **16:9** aspect ratio. (New Zealand, Singapore only)
- **16:9**: Adjusts the picture size to 16:9 appropriate for DVDs or wide broadcasting.
- **Wide Zoom**: Magnify the size of the picture more than 4:3.
- **Zoom**: Magnifies the 16:9 wide picture (in the vertical direction) to fit the screen size.
- **4:3**: This is the default setting for a video movie or normal broadcasting.
- **Screen Fit**: Use the function to see the full image without any cutoff when **HDMI** (720p / 1080i) or **Component** (1080i) signals are input.

Depending on the input source, the picture size options may vary.

The items available may differ depending on the selected mode.

In PC Mode, only **16:9** and **4:3** mode can be adjusted.

Settings can be adjusted and stored for each external device you have connected to an input of the TV.

Temporary image retention may occur when viewing a static image on the set for more than two hours.

Wide Zoom: Press the ► button to Select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the screen up / down. Then press the **ENTER** button.

Zoom: Press the ► button to Select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the picture up and down. Then press the **ENTER** button. Press the ► button to Select **Size**, then press the **ENTER** button. Press the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction. Then press the **ENTER** button.

After selecting **Screen Fit** in HDMI (1080i) or Component (1080i) mode: Select **Position** by pressing the ◄ or ► button. Use the ▲, ▼, ◄ or ► button to move the picture.

Reset: Press the ◄ or ► button to select **Reset**, then press the **ENTER** button. You can initialize the setting.

If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.

■ **Screen Mode → 16:9 / Wide Zoom / Zoom / 4:3 (New Zealand, Singapore only)**

When setting the picture size to Auto Wide in a 16:9 wide TV, you can determine the picture size you want to see the 4:3 WSS (Wide Screen Service) image or nothing. Each individual European country requires different picture size so this function is intended for users to select it.

- **16:9**: Sets the picture to 16:9 wide mode.
- **Wide Zoom**: Magnify the size of the picture more than 4:3.
- **Zoom**: Magnify the size of the picture vertically on screen.
- **4:3**: Sets the picture to 4:3 normal mode.

This function is available in **Auto Wide** mode.

This function is not available in PC, Component or HDMI mode.

■ **Digital NR → Off / Low / Medium / High / Auto**

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

When the signal is weak, select one of the other options until the best picture is displayed.

■ **HDMI Black Level → Normal / Low**

You can directly select the black level on the screen to adjust the screen depth.

This function is active only when the external input connects to HDMI (RGB signals).

■ **Film Mode → Auto**

The TV can be set to automatically sense and process film signals from all sources and adjust the picture for optimum quality.

- **Film Mode** is supported in TV, AV, COMPONENT(480i / 1080i) and HDMI(480i / 1080i).
- **Film Mode** is not supported in DTV channel with resolution 576p/720p.

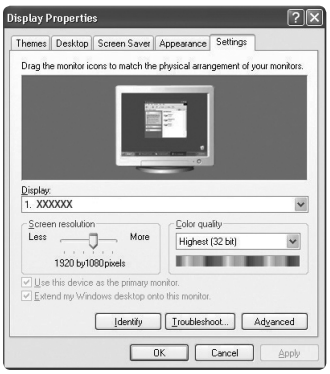
❑ **Picture Reset → Reset Picture Mode / Cancel**

Resets all picture settings to the default values.

- **Reset Picture Mode**: Current picture values return to default settings.

Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)



The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. First, click on 'Control Panel' on the Windows start menu.
2. When the control panel window appears, click on 'Appearance and Themes' and a display dialog-box will appear.
3. When the control panel window appears, click on 'Display' and a display dialogbox will appear.
4. Navigate to the 'Settings' tab on the display dialog-box.

- The correct size setting (resolution): Optimum-1360 X 768 pixels
- If a vertical-frequency option exists on your display settings dialog box, the correct value is '60' or '60 Hz'. Otherwise, just click 'OK' and exit the dialog box.

Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution. The resolutions in the table are recommended.

■ **D-Sub and HDMI/DVI Input**

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	640 x 350	31.469	70.086	25.175	+/-
	720 x 400	31.469	70.087	28.322	-/+
MAC	640 x 480	35.000	66.667	30.240	-/-
	832 x 624	49.726	74.551	57.284	-/-
VESA CVT	720 x 576	35.910	59.950	32.750	-/+
	1280 x 720	44.772	59.855	74.500	-/+
	1280 x 720	56.456	74.777	95.750	-/+
VESA DMT	640 x 480	31.469	59.940	25.175	-/-
	640 x 480	37.500	75.000	31.500	-/-
	640 x 480	37.861	72.809	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	46.875	75.000	49.500	+/+
	800 x 600	48.077	72.188	50.000	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/+
	1360 x 768	47.712	60.015	85.500	+/+
VESA GTF	1280 x 720	52.500	70.000	89.040	-/+

- When using an HDMI / DVI cable connection, you must use the **HDMI IN 1(DVI)** jack.
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- Separate and Composite modes are supported. SOG is not supported.

Setting up the TV with your PC

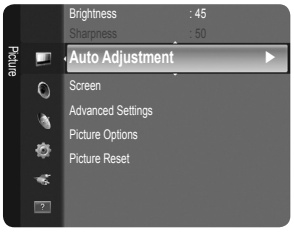
Preset: Press the **SOURCE** button to select PC mode.

❑ Auto Adjustment

Auto Adjustment allows the PC screen of set to self-adjust to the incoming PC video signal. The values of fine, coarse and position are adjusted automatically.

Press the **TOOLS** button to display the **Tools** menu. You can also set the Auto Adjustment by selecting **Tools** → **Auto Adjustment**.

This function does not work in DVI-HDMI mode.



❑ Screen

- **Coarse / Fine**

The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (Coarse) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned on the center of screen.

- **PC Position**

Adjust the PC's screen positioning if it does not fit the TV screen. Press the ▲ or ▼ button to adjusting the Vertical-Position. Press the ◄ or ► button to adjust the Horizontal-Position.

- **Image Reset**

You can replace all image settings with the factory default values.

SOUND CONTROL

Configuring the Sound Menu

❑ Mode → Standard / Music / Movie / Clear Voice / Custom

You can select a sound mode to suit your personal preferences.

Press the **TOOLS** button to display the **Tools** menu. You can also configure the sound mode by selecting **Tools** → **Sound Mode**.

❑ Equalizer

The sound settings can be adjusted to suit your personal preferences.

- **Mode**

You can select a sound mode to suit your personal preferences.

- **Balance**

Controls the balance between the right and left speakers.

- **100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth Adjustment)**

To adjust the level of different bandwidth frequencies

- **Reset**

Resets the equalizer settings to the default values.

❑ SRS TruSurround HD → Off / On

SRS TruSurround HD is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

Press the **TOOLS** button to display the **Tools** menu. You can also set the SRS TruSurround HD by selecting **Tools** → **SRS TS HD**.

❑ Audio Language (digital channels only)

You can change the default value for audio languages. Displays the language information for the incoming stream.

While viewing a digital channel, this function can be selected.

You can only select the language among the actual languages being broadcast.

❑ Audio Format → MPEG / Dolby Digital / Advanced (digital channels only)

When sound is emitted from both the main speaker and the audio receiver, a sound echo may occur due to the decoding speed difference between the main speaker and the audio receiver. In this case, use the TV Speaker function.

- While viewing a digital channel, this function can be selected.
- The **Audio Format** appears according to the broadcasting signal.

❑ Audio Description (digital channels only)

This is an auxiliary audio function that provides an additional audio track for visually challenged persons. This function handles the Audio Stream for the AD (Audio Description), when it is sent along with the Main audio from the broadcaster. Users can turn the Audio Description On or Off and control the volume.

- **Audio Description → Off / On**

  Turn the audio description function on or off.

- **Volume**

  You can adjust the audio description volume.
  - Volume is active when **Audio Description** is set to **On**.
  - While viewing a Digital channel, this function can be selected.

❑ Auto Volume → Off / On

Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

❑ Speaker Select → External Speaker / TV Speaker

If you want to hear the sound through separate speakers, cancel the internal amplifier.

- The volume and **MUTE** buttons do not operate when the **Speaker Select** is set to **External Speaker**.
- If you select **External Speaker** in the **Speaker Select** menu, the sound settings will be limited.

	TV's Internal Speakers	Audio Out (Optical, L/R Out) to Sound System
	RF, AV, Component, PC, HDMI	RF, AV, Component, PC, HDMI
TV Speaker	Sound Output	Sound Output
External Speaker	Mute	Sound Output
Video No Signal	Mute	Mute

❑ Sound Reset → Reset All / Reset Sound Mode / Cancel

You can restore the Sound settings to the factory defaults.

- **Reset Sound Mode**: Current sound values return to default settings.

Selecting the Sound Mode

You can set the sound mode in the **Tools** menu. When you set to **Dual I II**, the current sound mode is displayed on the screen.

	Audio Type	Dual 1 / 2	Default
A2 Stereo	Mono	**MONO**	Automatic change
	Stereo	**STEREO ↔ MONO**	
	Dual	**DUAL 1 ↔ DUAL 2**	**DUAL 1**
NICAM Stereo	Mono	**MONO**	Automatic change
	Stereo	**MONO ↔ STEREO**	
	Dual	**MONO ↔ DUAL 1 ↔ DUAL 2**	**DUAL 1**

- If the stereo signal is weak and an automatic switching occurs, then switch to the mono.
- This function is only activated in stereo sound signal. It is deactivated in mono sound signal.
- This function is only available in TV mode.

Configuring the Setup Menu

❑ Time

Clock

Setting the clock is necessary in order to use the various timer features of the TV.

- The current time will appear every time you press the **INFO** button.
- If you disconnect the power cord, you have to set the clock again.

- **Clock Mode**
  You can set up the current time manually or automatically.
  - **Auto**: Set the current time automatically using the time from the digital broadcast.
  - **Manual**: Set the current time to a manually specified time.
- **Clock Set**
  You can set the current time manually.
  - You can set the day, month, year, hour and minute directly by pressing the number buttons on the remote control.
  - Set up this item when you have set **Clock Mode** to **Manual**.
- **Time Zone (Australia only)**
  You can select your time zone.
  - Set up this item when you have set **Clock Mode** to **Auto**.

Sleep Timer → Off / 30 / 60 / 90 / 120 / 150 / 180

The sleep timer automatically shuts off the TV after a preset time (30, 60, 90, 120, 150 and 180 minutes).

- The TV automatically switches to standby mode when the timer reaches 0.
- To cancel the **Sleep Timer** function, select **Off**.
- Press the **TOOLS** button to display the **Tools** menu. You can also set the sleep timer by selecting **Tools** → **Sleep Timer**.

Timer 1 / Timer 2 / Timer 3

Three different on / off timer settings can be made. You must set the clock first.

- **On Time**: Set the hour, minute, and activate / inactivate. (To activate timer with the setting you've chosen, set to **Activate**.)
- **Off Time**: Set the hour, minute, and activate / inactivate. (To activate timer with the setting you've chosen, set to **Activate**.)
- **Volume**: Select the desired turn on volume level.
- **Antenna**: Select **ATV** or **DTV**.
- **Channel**: Select the desired channel.
- **Repeat**: Select **Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun** or **Manual**.
  - When **Manual** is selected, press the ► button to select the desired day of the week. Press the **ENTER** button over the desired day and the ✓ mark will appear.
- You can set the hour, minute and channel by pressing the number buttons on the remote control.
- **Auto Power Off**
  When you set the timer On, the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer On mode and prevents overheating, which may occur if a TV is on for too long time.

❑ Game Mode → Off / On

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game menu.

- Restrictions on game mode (Caution)
  - To disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.
  - If you display the TV menu in **Game mode**, the screen shakes slightly.
- **Game Mode** is not available in TV and PC mode.
- If the picture is poor when external device is connected to TV, check if **Game Mode** is **On**. Set **Game Mode** to **Off** and connect external devices.
- If **Game Mode** is On:
  - Picture Mode changes to **Standard** and Sound Mode changes to **Custom** automatically. The user cannot change these to other modes.
  - Sound Mode in the Sound menu is deactivated. Adjust the sound using the equalizer.
  - The Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer setting to the factory defaults.

❑ Child Lock → Off / On

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programme by muting out video and audio.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN by selecting **Change PIN** from the menu.
- You can lock some channels in Channel List. (refer to page 10)
- **Child Lock** is available only in TV mode.

❑ Change PIN

You can change your personal ID number that is required to set up the TV.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**.
- If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to 0-0-0-0: **POWER** (Off) → **MUTE** → 8 → 2 → 4 → **POWER** (On).

❑ Parental Lock

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programme by a 4-digit PIN (Personal Identification Number) code that is defined by the user.

- The **Parental Rating** item differs depending on the country.
- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN by selecting **Change PIN** from the menu.
- When the parental ratings are set, the 🔒 symbol is displayed.
- **Allow All**: Press to unlock all TV ratings.
  Block All: Press to lock all TV ratings.

❑ Subtitle

You can activate and deactivate the subtitles. Use this menu to set the Subtitle Mode. **Normal** under the menu is the basic subtitle and **Hard of hearing** is the subtitle for a hearing-impaired person.

- **Subtitle → Off / On**

  Switches subtitles on or off.

- **Mode → Normal / Hard of hearing**

  Sets the subtitle mode.

- **Subtitle Language**

  Set the subtitle language.

  - If the programme you are watching does not support the **Hard of hearing** function, **Normal** automatically activates even though **Hard of hearing** mode is selected.
  - English is the default in cases where the selected language is unavailable in the broadcast.
  - You can select these options simply by pressing the **SUBT.** button on the remote control.

❑ Teletext Language

You can set the Teletext language by selecting the language type.

✎ English is the default in cases where the selected language is unavailable in the broadcast.

❑ Preference

■ **Primary Audio Language / Secondary Audio Language / Primary Subtitle Language / Secondary Subtitle Language / Primary Teletext Language / Secondary Teletext Language**

Using this feature, users can select one of the languages. The language selected here is the default when the user selects a channel.

If you change the language setting, the Subtitle Language, Audio Language, and the Teletext Language of the Language menu are automatically changed to the selected language.

The Subtitle Language, Audio Language, and the Teletext Language of the Language menu show a list of languages supported by the current channel and the selection is highlighted. If you change this language setting, the new selection is only valid for the current channel. The changed setting does not change the setting of the Primary Subtitle Language, Primary Audio Language, or the Primary Teletext Language of the Preference menu.

❑ Digital Text → Disable / Enable (New Zealand only)

If the programme is broadcast with digital text, this feature is enabled.

✎ **MHEG (Multimedia and Hypermedia Information Coding Experts Group)**
An International standard for data encoding systems used in multimedia and hypermedia. This is at a higher level than the MPEG system which includes data-linking hypermedia such as still images, character service, animation, graphic and video files as well as multimedia data. MHEG is user runtime interaction technology and is being applied to various fields including VOD (Video-On-Demand), ITV (Interactive TV), EC (Electronic Commerce), tele-education, tele-conferencing, digital libraries and network games.

✎ At present, the broadcasting station provides EPG content only. Providing more content is scheduled for the future.

✎ If **Digital Text** is set to **Disable**, the EPG (Electronic Program Guide) will not work.
According to the broadcasting signal condition, EPG or MHEG loading time can be delayed.

❑ Melody → Off / Low / Medium / High

A melody sound can be set to come on when the TV is powered On or Off.

✎ **The Melody does not play**

– When no sound is output from the TV because the **MUTE** button has been pressed.
– When no sound is output from the TV because the (–) Volume button has been pressed.
– When the TV is turned off by Sleep Timer function.

❑ Energy Saving → Off / Low / Medium / High / Auto

This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the **Energy Saving** mode option to **High** to reduce eye fatigue as well as power consumption.

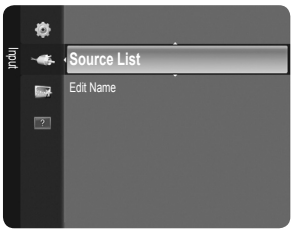
✎ Press the **TOOLS** button to display the **Tools** menu. You can also set the Energy Saving option by selecting **Tools** → **Energy Saving**.

INPUT / SUPPORT

Configuring the Input Menu

❑ Source List

Use to select TV or other external input sources such as DVD / Blu-ray players / Satellite receivers (Set-Top Box) connected to the TV. Use to select the input source of your choice.



Press the **SOURCE** button on the remote control to view an external signal source. TV mode can be selected by pressing the **TV** button.

- **TV / AV / Component1 / Component2 / PC / HDMI1/DVI / HDMI2 / HDMI3**

  You can choose only those external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted and sorted to the top. Inputs that are not connected will be sorted to the bottom.

  PC always stays activated.

  TOOLS (**Tools**): Displays the **Edit Name** and **Information** menus.

❑ Edit Name

Name the device connected to the input jacks to make your input source selection easier.

- **VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI / TV / IPTV / Blu-ray / HD DVD / DMA**

  When connecting an HDMI/DVI cable to the **HDMI IN 1(DVI)** port, you should set the **HDMI1/DVI** mode to **DVI** or **DVI PC** in the **Edit Name** of the **Input** mode. In this case, a separate sound connection is required.

Configuring the Support Menu

❑ Self Diagnosis

- **Picture Test**

If you think you have a picture problem, perform the picture test. Check the colour pattern on the screen to see if the problem still exists.

- **Yes**: If the test pattern does not appear or there is noise in the test pattern, select **Yes**. There may be a problem with the TV. Contact Samsung's call center for assistance.
- **No**: If the test pattern is properly displayed, select **No**. There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.

- **Sound Test**

If you think you have a sound problem, please perform the sound test. You can check the sound by playing a built-in melody sound through the TV.

If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV speaker** in the Sound menu.

The melody will be heard during the test even if **Speaker Select** is set to **External Speaker** or the sound is muted by pressing the **MUTE** button.

- **Yes**: If during the sound test you can hear sound only from one speaker or not at all, select **Yes**. There may be a problem with the TV. Contact Samsung's call center for assistance.
- **No**: If you can hear sound from the speakers, select **No**. There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.

- **Signal Information (digital channels only)**

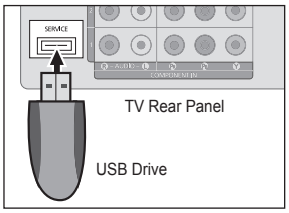
Unlike analogue channels, which can vary in reception quality from 'snowy' to clear, digital (HDTV) channels have either perfect reception quality or you will not receive them at all. So, unlike analogue channels, you cannot fine tune a digital channel. You can, however, adjust your antenna to improve the reception of available digital channels.

If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength. Continue to adjust the antenna until you find the best position with the strongest signal.

❑ Software Upgrade

To keep your product up-to-date with new Digital Television features then software upgrades are periodically broadcast as part of the normal Television signal. It will automatically detect these signals and display the software upgrade banner. You are given the option to install the upgrade.

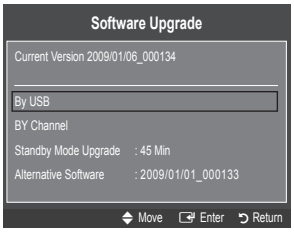
- Current Version shows version of the software being installed in the TV.
- Alternative Software shows the previous version that can be replaced.
- Software is represented as 'Year/Month/Day_Version'. The more recent the date, the newer the software version. Installing the latest version is recommended.



By USB

Insert a USB drive containing the firmware upgrade into TV. Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete. When software is upgraded, video and audio settings you have made will return to their default (factory) settings.

We recommend you write down your settings so that you can easily reset them after the upgrade.



By Channel

Upgrades the software using the broadcasting signal.

- If the function is selected during the software transmission period, this function searches for available software and downloads the software.
- The time required to download the software is determined by the signal status.

Standby Mode Upgrade

To continue software upgrade with master power on, Select On by pressing the ▲ or ▼ button. 45 minutes after entering standby mode, a manual upgrade is automatically conducted. Since the power of the unit is turned on internally, the screen may be on slightly for the LCD product. This phenomenon may continue for more than 1 hour until the software upgrade is completed.

Alternative Software

If Alternative Software is existing, this menu will be activated. You can change the software to previous version.

- If software was changed, existing software is displayed.
- You can change current software to alternative software by 'Alternative Software'.

❑ HD Connection Guide

This menu presents the connection method that provides the optimal quality for the HD TV.

Refer to this information when connecting external devices to the TV.

❑ Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software.

You can view the information regarding the call center, product and software file download method.

Teletext Feature

Most television stations provide written information services via Teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

- For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.
- You can change teletext pages by pressing the numeric buttons on the remote control.

❶ **(mode)**
Press to select the Teletext mode (LIST/FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save Teletext page into list using the (store) button.

❷ **(store)**
Used to store the Teletext pages.

❸ **(size)**
Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

❹ **(reveal)**
Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

❺ **Colour buttons (red / green / yellow / blue)**
If the FASTEXT system is used by a broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.

❻ **(Teletext on/mix)**
Press to activate Teletext mode after selecting the channel providing the Teletext service. Press it twice to overlap the Teletext with the current broadcasting screen.

❼ **(exit)**
Exit from the Teletext display.

❽ **(sub-page)**
Used to display the available sub-page.

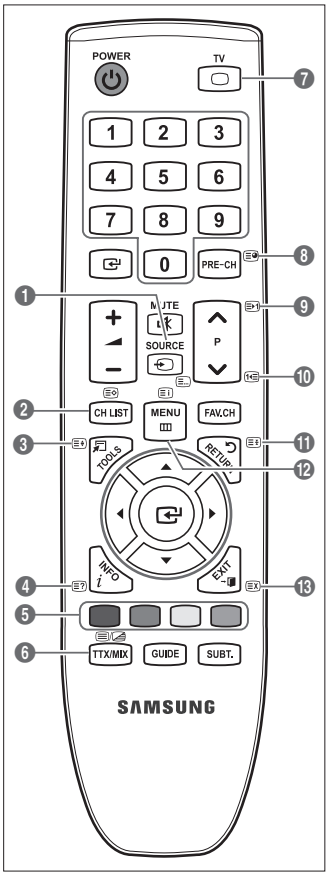
❾ **(page up)**
Used to display the next Teletext page.

❿ **(page down)**
Used to display the previous Teletext page.

⓫ **(hold)**
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

⓬ **(index)**
Used to display the index (contents) page at any tim e while you are viewing Teletext.

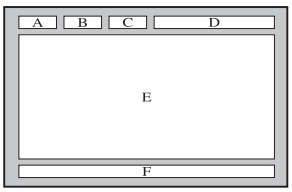
⓭ **(cancel)**
Used to display the broadcast when searching for a page.



- You can change Teletext pages by pressing the numeric buttons on the remote control.

The Teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information.
	FASTEXT information.

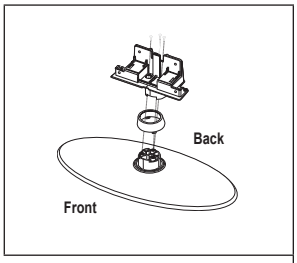


- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
  - Entering the page number
  - Selecting a title in a list
  - Selecting a coloured heading (FASTEXT system)
- Teletext level supported by the TV is version 2.5 which is capable of displaying additional graphics or text.
- Depending upon the transmission, blank side panels can occur when displaying Teletext.

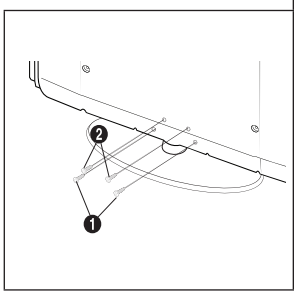
- In these cases, additional graphics or text is not transmitted.
- Older TV's which do not support version 2.5 are not capable of displaying any additional graphics or text, regardless of the Teletext transmission.
- Press the **TV** button to exit from the Teletext display.

Installing the Stand

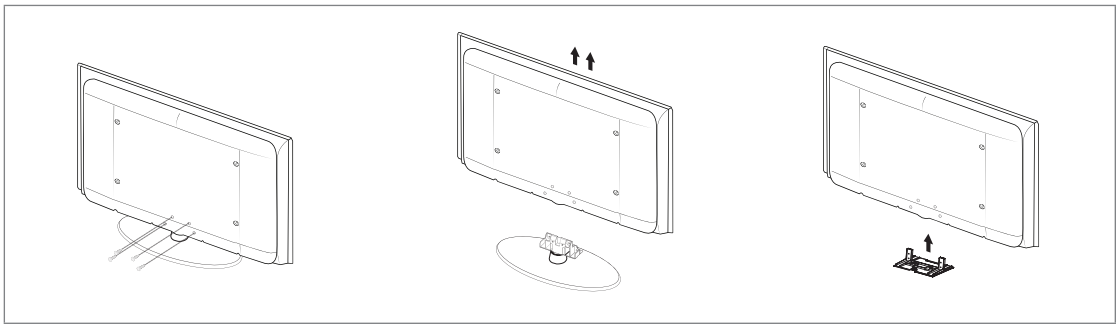
- **Preset**: Place the Guide Stand and Cover Neck onto the stand and fasten it using the screws. Applicable to 32inch models only.



1. Attach your LCD TV to the stand.
   - Two or more people should carry the TV.
   - Make sure to distinguish between the front and back of the stand when assembling them.
   - To make sure the TV is installed on the stand at a proper level, do not apply excess downward pressure to the upper left of right sides of the TV.
2. Fasten two screws at position ❶ and then fasten two screw at position ❷.
   - Stand the product up and fasten the screws. If you fasten the screws with the LCD TV placed down, it may lean to one side.
   - The stand is installed for models with the screen size of 37 inch and above.



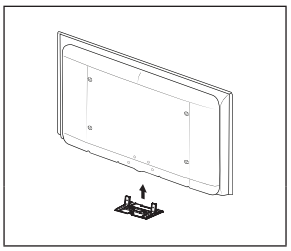
Disconnecting the Stand



1. Remove screws from the back of the TV.
2. Separate the stand from the TV.
   - Two or more people should carry the TV.
3. Cover the bottom hole with the cover.

Installing the Wall Mount Kit

Wall mount items (sold separately) allow you to mount the TV on the wall.
For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items. Contact a technician for assistance when installing the wall mounted bracket.
Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.



⚠ Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

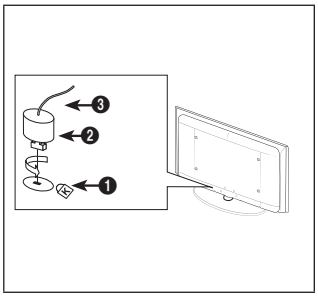
Anti-Theft Kensington Lock

The Kensington Lock is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer.

Refer to the manual provided with the Kensington Lock for proper use.

- The locking device has to be purchased separately.
- The location of the Kensington Lock may be different depending on its model.

1. Insert the locking device into the Kensington slot on the LCD TV ❶ and turn it in the locking direction ❷.
2. Connect the Kensington Lock cable ❸.
3. Fix the Kensington Lock to a desk or a heavy stationary object.



Securing the Installation Space

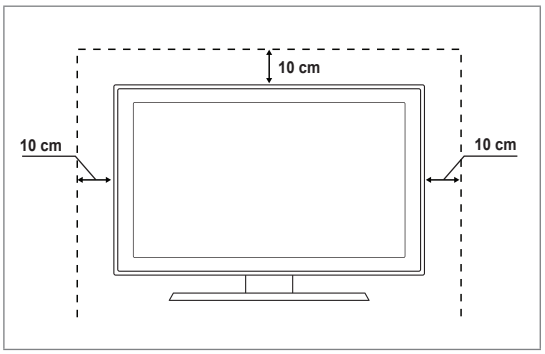
Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.

Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

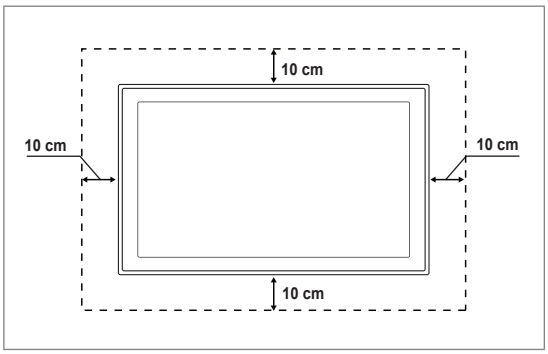
Install the product so the required distances shown in the figure are kept.

- When using a stand or wall-mount, use parts provided by Samsung Electronics only.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or fire due to an increase in the internal temperature of the product due to poor ventilation.
- The appearance may differ depending on the product.

When installing the product with a stand



When installing the product with a wall-mount

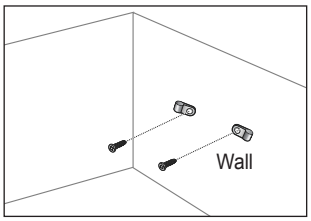


Securing the TV to the Wall

Caution: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

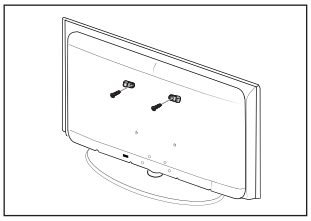
To secure the TV:

1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
   - You may need additional material such as an anchor depending on the type of wall.
   - Since the necessary clamps, screws, and string are not supplied, please purchase them separately.

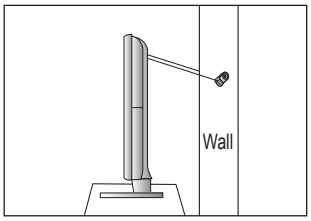


2. Remove the screws from the centre back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
   - Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.
   - Screw Specifications

   For a 17 ~ 29 Inch LCD TV: M4 X L15 / For a 32 ~ 40 Inch LCD TV: M6 X L15



3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong cable.
   - Install the TV near to the wall so that it does not fall backwards.
   - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
   - Remove the cable before moving the TV.
4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.



Troubleshooting: Before Contacting Service Personnel

Problem	Possible Solution
No sound or picture	Check that the mains lead has been connected to a wall socket. Check that you have pressed the button on your set. Check the picture contrast and brightness settings. Check the volume.
Normal picture but no sound	Check the volume. Check whether the **MUTE** button has been pressed on the remote control. Check the **Speaker Select** settings.
Screen is black and power indicator light blinks steadily	On your computer check; Power, Signal Cable. The TV is using its power management system. Move the computer's mouse or press any key on the keyboard.
No picture or black and white picture	Adjust the colour settings. Check that the broadcast system selected is correct.
Sound and picture interference	Try to identify the electrical appliance that is affecting the set and move it further away. Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound	Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions	Replace the remote control batteries. Clean the upper edge of the remote control (transmission window). Check the battery terminals.
'Check signal cable.' message is displayed	Check that the signal cable is firmly connected to the PC or video sources. Check that the PC or video sources are turned on.
On PC mode, 'Not Supported Mode.' message is displayed	Check the maximum resolution and the frequency of the video adaptor. Compare these values with the data in the Display Modes.
The damaged picture appears in the corner of the screen	If **Screen Fit** is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.
The 'Resets all settings to the default values.' message appears.	This appears when you press and hold the **EXIT** button for a while. The product settings are reset to the factory defaults.
You may see small particles if you look closely at the edge of the bezel surrounding the TV screen.	This is part of the product's design and is not a defect.

The TFT LCD panel uses a panel consisting of sub pixels (3 133 440) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

Specifications

Model Name	LA26B450	LA32B450
Screen Size (Diagonal)	26 inches	32 inches
PC Resolution (Optimum)	1360 x 768 @ 60Hz	1360 x 768 @ 60Hz
Sound Output	10W X 2	10W X 2
Dimension (WxDxH) Without Stand With stand	 670 x 75 x 455 mm 670 x 216 x 495 mm	 800 x 85 x 531 mm 800 x 252 x 577 mm
Weight With Stand	8 kg	12 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	 10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing	 10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing
Stand Swivel (Left / Right)	0˚	-20˚ ~ 20˚

- Design and specifications are subject to change without prior notice.
- This device is a Class B digital apparatus.
- For the power supply and Power Consumption, refer to the label attached to the product.

This page is intentionally left blank.